

1/6

SEQUENCE LISTING

<110> The Chemo-Sero-Therapeutic Research Institute

<120> Peptide Fragments Having Inhibitory Activity to
Cellular Death

5 <130> 661608

<150> JP 10-347863

<151> 1998-11-19

<160> 7

10 <210> 1

<211> 29

<212> PRT

<213> Human plasma

<220>

15 <223> Xaa represents selenocysteine

<400> 1

Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu

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Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu

20

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<210> 2

<211> 28

<212> PRT

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25 <220>

<400> 2

1 5 10 15

20 25

<211> 103

10 <213> Human plasma

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20 25 30

35 40 45

50 55 60

65 70 75 80

25 85 90 95

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5 <212> PRT

<213> Human plasma

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Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu

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10 Leu Ala Pro Arg

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$\langle 211 \rangle$ 21

<212> PRT

15 <213> Human plasma

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Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu

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Leu Ala Pro Arg Ser

20 20

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<211> 371

<212> PRT

<213> Human plasma

25 <220>

<223> Xaa represents selenocysteine

<400> 6

Met Trp Arg

5 Ser Leu Gly Leu Ala Leu Ala Leu Cys Leu Leu Pro Ser Gly Gly Thr
 -15 -10 -5 -1
 Glu Ser Gln Asp Gln Ser Ser Leu Cys Lys Gln Pro Pro Ala Trp Ser
 1 5 10 15
 Ile Arg Asp Gln Asp Pro Met Leu Asn Ser Asn Gly Ser Val Thr Val
 10 20 25 30
 Val Ala Leu Leu Gln Ala Ser Xaa Tyr Leu Cys Ile Ile Glu Ala Ser
 35 40 45
 Lys Leu Glu Asp Leu Arg Val Lys Leu Lys Lys Glu Gly Tyr Ser Asn
 50 55 60
 15 Ile Ser Tyr Ile Val Val Asn His Gln Gly Ile Ser Ser Arg Leu Lys
 65 70 75 80
 Tyr Thr His Leu Lys Asn Lys Val Ser Glu His Ile Pro Val Tyr Gln
 85 90 95
 Gln Glu Glu Asn Gln Thr Asp Val Trp Thr Leu Leu Asn Gly Ser Lys
 20 100 105 110
 Asp Asp Phe Leu Ile Tyr Asp Arg Cys Gly Arg Leu Val Tyr His Leu
 115 120 125
 Gly Leu Pro Phe Ser Phe Leu Thr Phe Pro Tyr Val Glu Glu Ala Ile
 130 135 140
 25 Lys Ile Ala Tyr Cys Glu Lys Lys Cys Gly Asn Cys Ser Leu Thr Thr

25

360

<211> 20

5 <212> PRT

<213> Human plasma

<220>

<223> Xaa represents selenocysteine

<400> 7

10 Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn Leu Pro Ser Leu

1

5

10

15

Cys Ser Xaa Gln

20 .

SEQUENCE LISTING

<110> HIRASHIMA, Masaki et al.

<120> PEPTIDE FRAGMENTS HAVING CELL DEATH-INHIBITORY ACTIVITY

<130> 0020-4867P

<140> 09/856,199

<141> 2001-05-18

<160> 7

<170> PatentIn version 3.1

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<221> misc_feature

<222> (1)..(29)

<223> Xaa represents selenocysteine

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Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu
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Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu
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<212> PRT

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<222> (1)..(28)

<223> Xaa represents selenocysteine

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Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn Leu Pro Ser Leu
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Cys Ser Xaa Gln Gly Leu Arg Ala Glu Glu Asn Ile
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 <222> (1)..(103)
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Leu Ala Pro Arg Ser Xaa Cys Cys His Cys Arg His Leu Ile Phe Glu
 20 25 30

Lys Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn Leu Pro Ser
 35 40 45

Leu Cys Ser Xaa Gln Gly Leu Arg Ala Glu Glu Asn Ile Thr Glu Ser
 50 55 60

Cys Gln Xaa Arg Leu Pro Pro Ala Ala Xaa Gln Ile Ser Gln Gln Leu
 65 70 75 80

Ile Pro Thr Glu Ala Ser Ala Ser Xaa Arg Xaa Lys Asn Gln Ala Lys
 85 90 95

Lys Xaa Glu Xaa Pro Ser Asn
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Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu
 1 5 10 15

Leu Ala Pro Arg
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<400> 5

Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys Leu Pro Thr Asp Ser Glu
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Leu Ala Pro Arg Ser
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 <222> (1)..(381)
 <223> Xaa represents selenocysteine

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 <222> (1)..(19)
 <223> Signal sequence

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Met Trp Arg Ser Leu Gly Leu Ala Leu Ala Leu Cys Leu Leu Pro Ser
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Gly Gly Thr Glu Ser Gln Asp Gln Ser Ser Leu Cys Lys Gln Pro Pro
 20 25 30

Ala Trp Ser Ile Arg Asp Gln Asp Pro Met Leu Asn Ser Asn Gly Ser
 35 40 45

Val Thr Val Val Ala Leu Leu Gln Ala Ser Xaa Tyr Leu Cys Ile Ile
 50 55 60

Glu Ala Ser Lys Leu Glu Asp Leu Arg Val Lys Leu Lys Lys Glu Gly
 65 70 75 80

Tyr Ser Asn Ile Ser Tyr Ile Val Val Asn His Gln Gly Ile Ser Ser
85 90 95

Arg Leu Lys Tyr Thr His Leu Lys Asn Lys Val Ser Glu His Ile Pro
100 105 110

Val Tyr Gln Gln Glu Glu Asn Gln Thr Asp Val Trp Thr Leu Leu Asn
115 120 125

Gly Ser Lys Asp Asp Phe Leu Ile Tyr Asp Arg Cys Gly Arg Leu Val
130 135 140

Tyr His Leu Gly Leu Pro Phe Ser Phe Leu Thr Phe Pro Tyr Val Glu
145 150 155 160

Glu Ala Ile Lys Ile Ala Tyr Cys Glu Lys Lys Cys Gly Asn Cys Ser
165 170 175

Leu Thr Thr Leu Lys Asp Glu Asp Phe Cys Lys Arg Val Ser Leu Ala
180 185 190

Thr Val Asp Lys Thr Val Glu Thr Pro Ser Pro His Tyr His His Glu
195 200 205

His His His Asn His Gly His Gln His Leu Gly Ser Ser Glu Leu Ser
210 215 220

Glu Asn Gln Gln Pro Gly Ala Pro Asn Ala Pro Thr His Pro Ala Pro
225 230 235 240

Pro Gly Leu His His His His Lys His Lys Gly Gln His Arg Gln Gly
245 250 255

His Pro Glu Asn Arg Asp Met Pro Ala Ser Glu Asp Leu Gln Asp Leu
260 265 270

Gln Lys Lys Leu Cys Arg Lys Arg Cys Ile Asn Gln Leu Leu Cys Lys
275 280 285

Leu Pro Thr Asp Ser Glu Leu Ala Pro Arg Ser Xaa Cys Cys His Cys
290 295 300

Arg His Leu Ile Phe Glu Lys Thr Gly Ser Ala Ile Thr Xaa Gln Cys
 305 310 315 320

Lys Glu Asn Leu Pro Ser Leu Cys Ser Xaa Gln Gly Leu Arg Ala Glu
 325 330 335

Glu Asn Ile Thr Glu Ser Cys Gln Xaa Arg Leu Pro Pro Ala Ala Xaa
 340 345 350

Gln Ile Ser Gln Gln Leu Ile Pro Thr Glu Ala Ser Ala Ser Xaa Arg
 355 360 365

Xaa Lys Asn Gln Ala Lys Lys Xaa Glu Xaa Pro Ser Asn
 370 375 380

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 <223> Xaa represents selenocysteine

<400> 7

Thr Gly Ser Ala Ile Thr Xaa Gln Cys Lys Glu Asn Leu Pro Ser Leu
 1 5 10 15

Cys Ser Xaa Gln
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